

<110> Consortium für elektrochemische Industrie GmbH

<120> pyrF Gen und seine Verwendung

<130> Co9904

<140>

<141>

<160> 7

<170> PatentIn Vers. 2.0

<210> 1

<211> 3448

<212> DNA

<213> *Trametes versicolor*

<220>

<221> gene

<222> (1133) .. (1877)

<220>

<221> promoter

<222> (1) .. (1132)

<220>

<221> 3'UTR

<222> (1878) .. (3448)

<220>

<221> intron

<222> (1226) .. (1286)

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<211> 684

<212> DNA

<213> *Trametes versicolor*

<220>

<221> CDS

<222> (1)..(684)

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gcc ggt gcg ctc aag ttc ggg acc ttc acc ctc aaa tca ggc cgg acc	96
Ala Gly Ala Leu Lys Phe Gly Thr Phe Thr Leu Lys Ser Gly Arg Thr	
20 25 30	
tcg ccc tac ttc ttc aac gcc ggc ctg ctc gcg tcc ggg ccc gtg ctc	144
Ser Pro Tyr Phe Phe Asn Ala Gly Leu Leu Ala Ser Gly Pro Val Leu	
35 40 45	
gac acg ctg tgc tcc gcg tac gcc gcg acg atc gcg cgc gcg ctc aag	192
Asp Thr Leu Cys Ser Ala Tyr Ala Ala Thr Ile Ala Arg Ala Leu Lys	
50 55 60	
gcg tcg ccc ggg ctg ccc gcg ttc gac gtg ctc ttc ggg ccc gcg tac	240
Ala Ser Pro Gly Leu Pro Ala Phe Asp Val Leu Phe Gly Pro Ala Tyr	
65 70 75 80	
aag ggc atc ccg ttc gcg gcg ggg acc gcg ctg ctg ctg cac cgc gac	288
Lys Gly Ile Pro Phe Ala Ala Gly Thr Ala Leu Leu Leu His Arg Asp	
85 90 95	
cac ggc atc acc gtc ggg ttc gcg tac gac cgc aag gag gcg aag gat	336
His Gly Ile Thr Val Gly Phe Ala Tyr Asp Arg Lys Glu Ala Lys Asp	
100 105 110	

cat ggg gag ggc ggg ata ctt gtg ggc gcg ccg gtg agg ggc aag cgc	384
His Gly Glu Gly Gly Ile Leu Val Gly Ala Pro Val Arg Gly Lys Arg	
115 120 125	

gtg ctg gtg ctg gac gac gtc gcg acg gcg ggc acg gcg atc cgc cag	432
Val Leu Val Leu Asp Asp Val Ala Thr Ala Gly Thr Ala Ile Arg Gln	
130 135 140	

gcg att gag act gtg acg aag gag ggg ggc gag gtc gtt ggc gcg gtg	480
Ala Ile Glu Thr Val Thr Lys Glu Gly Gly Glu Val Val Gly Ala Val	
145 150 155 160	

ttg atg ctc gat cgg cag gag gtg ggc aag gag ggg aag agc acg ctt	528
Leu Met Leu Asp Arg Gln Glu Val Gly Lys Glu Gly Lys Ser Thr Leu	
165 170 175	

gcg gag gtg gag gcg ctg ttg ggc ggg aag gga cgt gtg ccg acg atc	576
Ala Glu Val Glu Ala Leu Leu Gly Gly Lys Gly Arg Val Pro Thr Ile	
180 185 190	

ctg agg atg aag gac ctc atg aag tgg ttg cag gag cac ggc cgg acg	624
Leu Arg Met Lys Asp Leu Met Lys Trp Leu Gln Glu His Gly Arg Thr	
195 200 205	

gag gag ctt gcg aag atg caa gag tac tgg gag cag tac ggc gcg aag	672
Glu Glu Leu Ala Lys Met Gln Glu Tyr Trp Glu Gln Tyr Gly Ala Lys	
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Glu Ser Glu	
225	

<210> 3
 <211> 227
 <212> PRT
 <213> Trametes versicolor

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20 25 30

Ser Pro Tyr Phe Phe Asn Ala Gly Leu Leu Ala Ser Gly Pro Val Leu
35 40 45

Asp Thr Leu Cys Ser Ala Tyr Ala Ala Thr Ile Ala Arg Ala Leu Lys
50 55 60

Ala Ser Pro Gly Leu Pro Ala Phe Asp Val Leu Phe Gly Pro Ala Tyr
65 70 75 80

Lys Gly Ile Pro Phe Ala Ala Gly Thr Ala Leu Leu Leu His Arg Asp
85 90 95

His Gly Ile Thr Val Gly Phe Ala Tyr Asp Arg Lys Glu Ala Lys Asp
100 105 110

His Gly Glu Gly Gly Ile Leu Val Gly Ala Pro Val Arg Gly Lys Arg
115 120 125

Val Leu Val Leu Asp Asp Val Ala Thr Ala Gly Thr Ala Ile Arg Gln

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Leu Met Leu Asp Arg Gln Glu Val Gly Lys Glu Gly Lys Ser Thr Leu		
	165	170 175
Ala Glu Val Glu Ala Leu Leu Gly Gly Lys Gly Arg Val Pro Thr Ile		
	180	185 190
Leu Arg Met Lys Asp Leu Met Lys Trp Leu Gln Glu His Gly Arg Thr		
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Glu Glu Leu Ala Lys Met Gln Glu Tyr Trp Glu Gln Tyr Gly Ala Lys		
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Glu Ser Glu		
225		

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Die Beschreibung von Knstliche Sequenz:PrimerA

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 <222> (1)..(26)

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 <222> (1)..(26)
 <223> n = i

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26

<210> 5
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
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 <222> Complement((1)..(23))

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 <221> primer_bind
 <222> Complement((1)..(23))
 <223> n = i

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23

<210> 6

<211> 35
<212> DNA
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35

<210> 7
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<222> Complement((1)..(35))

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35